

WEST

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File: DWPI

Dec 24, 1993

DERWENT-ACC-NO: 1994-037853

DERWENT-WEEK: 199405

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TITLE: Optical information recording medium having stable recording and erasing cycle characteristics - has 1st dielectric layer, 1st zinc sulphide interlayer, recording layer capable of switching between amorphous and crystalline state 2nd interlayer, etc.

PATENT-ASSIGNEE:

ASSIGNEE

CODE

MATSUSHITA ELEC IND CO LTD

MATU

PRIORITY-DATA: 1992JP-0154651 (June 15, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 05342631 A	December 24, 1993		004	G11B007/24

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 05342631A	June 15, 1992	1992JP-0154651	

INT-CL (IPC): G11B 7/24; G11B 7/26

ABSTRACTED-PUB-NO: JP 05342631A

BASIC-ABSTRACT:

The following are successively formed on one surface of a transparent substrate: (a) a first dielectric layer comprising a tantalum cpd.; (b) a first interlayer comprising mainly zinc sulphide; (c) a recording layer having an amorphous state by absorbing laser light irradiation to increase temp. melting, and rapid cooling and a crystalline state by increasing the temp. of the amorphous state; (d) a second interlayer comprising mainly zinc sulphide; (e) a second dielectric layer having the same material as that of the first dielectric layer; (f) a third interlayer comprising mainly zinc sulphide; and (g) a reflective layer.

Prodn. of the medium comprises; (i) sputtering the first and the second dielectric layer; (ii) obtaining sputtering pressure to 5×10^{-4} to 5×10^{-3} torr; and (iii) obtaining oxygen partial pressure of 5×10^{-5} to 1×10^{-4} torr.

USE/ADVANTAGE - Used in recording, reproducing, and erasing information with high density and high capacity by laser beams. Providing a thin interlayer to the interface in contact with the reflective layer, provides a medium with stable recording and erasing cycle characteristics and resistance to frequent reloading and environmental change.

CHOSEN-DRAWING: Dwg.1/1

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result set

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L29</u>	L28 or l27	219	<u>L29</u>
<u>L28</u>	L23 not magnetic	122	<u>L28</u>
<u>L27</u>	L19 not magnetic	99	<u>L27</u>
<u>L26</u>	L25 and l10	19	<u>L26</u>
<u>L25</u>	L23 or l19	374	<u>L25</u>
<u>L24</u>	L23 and l10	19	<u>L24</u>
<u>L23</u>	L22 and l14	202	<u>L23</u>
<u>L22</u>	L21 same l5	389	<u>L22</u>
<u>L21</u>	L20 same l3	35747	<u>L21</u>
<u>L20</u>	((barrier or diffusion or migration or interfac\$6) near3 (film\$1 or layer\$1)) or interlayer\$4)	260021	<u>L20</u>
<u>L19</u>	L18 not l16	184	<u>L19</u>
<u>L18</u>	L14 and l12	219	<u>L18</u>
<u>L17</u>	L14 and l9	7156	<u>L17</u>
<u>L16</u>	L14 and l13	35	<u>L16</u>
<u>L15</u>	@AD>=19970101	6673072	<u>L15</u>
<u>L14</u>	@AD<=19970101	14663280	<u>L14</u>
<u>L13</u>	L12 and l10	175	<u>L13</u>
<u>L12</u>	L5 same l9	484	<u>L12</u>
<u>L11</u>	L10 and l9	250	<u>L11</u>
<u>L10</u>	(phase near5 chang\$7) same l5	6417	<u>L10</u>
<u>L9</u>	(third or fourth or four or three or double or triple) near5 l3	15213	<u>L9</u>
<u>L8</u>	jp-04052188-\$.did.	2	<u>L8</u>
<u>L7</u>	(phase near5 chang\$7) and l6	52	<u>L7</u>
<u>L6</u>	L5 same l4	198	<u>L6</u>
<u>L5</u>	(optical or laser or information) near3 (medium or media or disk\$1 or disc\$1)	301771	<u>L5</u>
<u>L4</u>	L3 same l1	21290	<u>L4</u>
<u>L3</u>	((dielectric or protect\$6) near3 (film\$1 or layer\$1))	365121	<u>L3</u>
<u>L2</u>	((dielectrcl or protect\$6) near3 (film\$1 or layer\$1))	240300	<u>L2</u>
<u>L1</u>	((barrier or diffusion or migration) near3 (film\$1 or layer\$1))	160719	<u>L1</u>

END OF SEARCH HISTORY